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(NY-3001/22)

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DESCRIPTORS: Hydrolysis, *Calcium compounds,
Fluorides, *Fluorapatite, *Silicon compounds, Dioxides

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JPRS 13628

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(NY-5084)

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JPRS 9679

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ATIC F-TS-9224/V

Sci - Electronics

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(DC-4668)

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JPRS 6719

Sci

Feb 61

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(DC-4666)

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JPRS 6694

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Nov 58

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Apr 59

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PAPER CHROMATOGRAPHY STUDIES OF THE HYDROXYCINNAMIC ACIDS IN TOBACCO (Issledovaniye Oksiproizvodnykh Korichnoy Kisloty v Tobake Metodom Khromatografii na Burnage). Feb 59, [6]p. 16 refs. C. T. S. No. 626.

Order from LC or SLA mi\$1.80, ph\$1.80 60-23990

Trans. of Akademiya Nauk SSSR. Doklady, 1958, v. 121, no. 2, p. 330-333.

Chromatograms were made from samples of fermented grade II Bulgarian tobacco to determine cinnamic acid derivatives. Free caffeic and chlorogenic acids were detected. Catechin derivatives and free quinic acid were not present. Rutin was detected as a single spot. (See also 59-10145)

(Chemistry--Analytical, TT, v. 5, no. 4)

1. Tobacco--Chromatographic analysis
2. Paper chromatography--Applications
 - I. Mikhaylov, M. K.
 - II. CTS-626
 - III. Department of Scientific and Industrial Research (Gr. Brit.)

Office of Technical Services

A study of oxy-derivatives of Cinnamic Acid in
Tobacco by Paper Chromatography, by M. K. MikhaYlov.

^{Vol 121}
RUSSIAN, per, Dok Ak Nauk SSSR, No 2, 1958, pp 330-
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Co-op Trans Sch 626

Sci - Chem
Mar 59

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Mikhailov, M. K.
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FOR DETERMINING CHLOROGENIC ACID IN
TOBACCO. [1962].

Order from K-H \$7.50

K-H-10833-a

Trans. of Bulgar[sk] Akad[emiya na] Nauk[ite].
Dokl[ady] 1960, v. 12, no. 6, p. 525-528.

DESCRIPTORS: Organic acids, *Tobacco, Determina-
tion, *Chlorogenic acids.

(Chemistry--Analytical, TT, v. 9, no. 2)

62-17524

1. Title: Wilkinson's method
2. Title: Phillip's method
3. Title: Bacot's method
- I. Mikhailov, M. K.
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Library Associates,
Detroit, Mich.

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Order from K-H \$6.25

K-H 9856-a

Trans. of [Bulgarska Akademiya na Naukite,
Doklady] 1958. v. 11, no. 6, p. 493-496.

DESCRIPTORS: *Tobacco, Chemical analysis,
*Vitamin P.

(Chemistry--Analytical, TT, v. 8, no. 8)

62-22568

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C223289

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FOR DETERMINING CHLOROGENIC ACID IN
TOBACCO. [1962] 6p. 14 refs.
Order from SLA \$1.10

62-18834

Trans. of Bulgar[ska] Akad[emiya na] Nauk[ite].
Dokl[ady] [1959] v. 12, no. 6, p. 525-528.
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DESCRIPTORS: Chemical analysis, *Tobacco,
*Chlorogenic acids, Phenols, Precipitation.

(Chemistry--Analytical, TT, v. 10, no. 2)

62-18834

I. Mikhailov, M. K.

Office of Technical Services

Mikhailov, M. K.
THE SHMUK METHOD FOR DETERMINATION OF
POLYPHENOLS IN TOBACCO (O Metode Shmuka dlya
Opredeleniya Polifenolov v Tabake). [1962] [6]p.
5 refs.

62-10908
Order from OTS or SLA \$1.10

Trans. of Tabak (USSR) 1959, v. 20, no. 2, p. 41-43.
Another trans. is available from LC or SLA at \$1.80,
ph\$1.80 as 61-15172, CSIRO Trans-4941 [1960] [7]p.

DESCRIPTORS: *Tobacco, Chemical analysis, *Phenols,
Determination, Paper chromatography.

For abstract see Technical Translations 5: 287, 1961.

(Chemistry--Analytical, TT, v. 8, no. 1)

62-10908

I. Mikhailov, M. K.

205355

Office of Technical Services

On the Enzymic Oxidation of Tobacco Polyphenol, by
M. K. Mikhailova.

Vol 121

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515.

Co-op Trans Sch 625

Sci - Biol
Mar 59

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Investigation by Flavones of the Polyphenol
Group in Tobacco by Filter Paper Chromatography, by
M. K. Mikhailov.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol
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Sci - Physics
Jul 57

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London, NW1, 1

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Order from LC or SLA mi\$1.80, ph\$1.80 61-15172

Trans. of Tabak (USSR) 1959, v. 20, no. 2, p. 41-43.

Paper chromatography was used to determine the influence of polyphenols on the reducing capacity (with respect to Fehling's solution) of aqueous extracts of tobacco before and after their acid hydrolysis. Results indicated that the polyphenols contained in non-hydrolyzed tobacco extract have no influence on its reducing capacity with respect to Fehling's solution, and in the hydrolyzed extract the aglycones of the polyphenols of the group of flavone derivatives are the only active principle. Shmuk's method gives only the aglycones of the polyphenols of the Flavone-derivative (Chemistry--Analytical, TT, v. 5, no. 6) (over)

61-15172

1. Tobacco--Chemical analysis
2. Phenols--Determination
- I. Mikhaylov, M. K.
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Office of Technical Services

18
Variations in Merchantability and Ages of
Technical Maturity of Volga Region Mountain
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